Name Dai Huang	
Notebook Number	728-3
Subject Raw Coke Proje	ut
. ————————————————————————————————————	
Dates From	To

THIS BOOK IS THE PROPERTY OF UCAR Carbon Company Inc. 12900 Snow Road Parma Ohio 44130

Kaw	Coke Compaign (I)
Raw Moderials	
Row wike . un	west ~3,000 (T3349-B, run 5)
m	whil ~3 mm (T3349-1, run5)
Mesophere take,	KMFC, MPC-1
Tomix counter:	fine portron of Jum filter 20 um molding pender
Contract of the contract of th	Oue.
PC coke:	2 un truer
Mixing .	
Equipment: Lanconster	- K-Lab Mixer
Sample ID	composition (weight %)
U3K20	80% unocal 3 mm + 20% KMFC
N3M50	80% unoced 3 mm + 20% mpc-1
U3 7 20	80% unutal 3mm + 20% F-Tmix
u3 P20	80% unifed 3 mm + 20% PC coke
m3 ko	80% mobile 3 mm + 20% Km F(
m3 m20	80% mobil 3,4m + 20% PARTE MPC-1
m3 720	80% mbl 3.m + 20% F-Tonix
m3 p ₂₀	80% mobil 3 um + 20% PC coke

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		Subject Cross-Reference (if any)		5
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	the section	Mixing Procedures		400-4
		Mix Formulation.		
The second of th		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	600 2,400	era de la
			400 600	The state of the s
· · · · · · · · · · · · · · · · · · ·		Total 5	7,000 3,000	The state of the s
y ponder		Mixing.		• - Tope-sod
20 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1. Raise the lid, Head	d "up". Change the Pan with raw	wke
		only;		
the property of the property o		2. Lower the live. Hea	d" down", Fram " down"	
A description of the second of		3. Reter & Pan on, s	et rotor and pan at 90/90. Begin	
of the production of the produ		addition of additive	2 through funnel.	
		I control to the control of the cont	tion complete, turn rotor and po	an
			I and put the plug back.	The state of the s
			the pan is fully titled.	
				And the state of t
C section of the sect		6. Rotor and pan on	with 90/90 settings. Mix internal	rely
		for 2 minutes		a constitution of the cons
EMPC-		7. Rotor and pan off	From "down" Head "up" unwand	
Tonix		mix		
crite		8. Weigh the mix.		The state of the s
A radio space on radio				The state of the s
The second secon				
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5 S	ubject			
	ross-Reference (if a	any)		
				and the second s
Moldin	q			
		28 T 188"		
	Put the mix into	1 d x bag.	lost the bag	
	and the same of th	10/8		
, 2,	CIP et 20,000	PSI		
4	Weight the Measure	the dimension, u	reight, density	
	wayn in the			
Baking				
0				
	Fast baking schedule:			
m. (=)	7	1,200 //	3.3 hrs	
200 200 m 200 m 100 m	RT -> 500°C	15°C/hr		
1000	500°C -> (000°C	2.5°c/hr	200 hrs	-
	300 2 77 1000			
a a series de la compresencia de l La compresencia de la compresencia	1000°C	hold 4 hrs	4 hrs	
* 100 10 *****	12-5			
and the second second	(000°c → 600°c	5°0/hr	80 hrs	
i i i			18.21 days	+/-
· Operand —			19.21 5.19	
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	Performed and Rec		Date Date	_

	The new idea of making Carbon from with astratural graphic
	flake as the additive foaming agent.
1	
1	Precursore Pitch have
	Precursors: Pitch bese (isotropic or mesophane) resins - phenolic or furful alcohol
	thermoplastic plastics
	mill these precursors into pounders, with the size range from 50-200
	Additive: treated natural graphite flakes.
	these flakes can be in the powder forms with the size
	range ef 50-200 mesh.
	Mix these precursors and additive in the mixer, with the voter of
	precursor (10-90%) and additive (10-90%)
	two different subsequent processes.
	i) - Charge the mix into a mold which is is nolded to form a prefo
T Y	- put the proform in the pressure vessel, pull vacuum, the apply
	of pressure to the first of the second
	gas from the same time
	gas pressure range (500 psi - 1000 psi), in the same time to heat the versel at the heating rate (10-50 °c/hr)
	prefirm heat the versel at fit heating rate. (10-50°c/hr)
	prefirm heat the versel at fit heating rate (10-50°c/hr) offerent for 1-5 hrs. Final temp. @ 800~1000°C
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	prefirm heat the versel at fit heating rate (10-50°c/hr) offerent for 1-5 hrs. Final temp. @ 800~1000°C
	prefirm heat the versel at fit heating rate (20-50°c/hr) oliferent oliferent for 1-5 hrs. Final temp. @ 800 ~ 1000°C [P ii) - Charge the mix into a mold which will be transferred under a pressure in the same time pass the current through to the applied pressure can be around secretor psi.)
	prefirm heat the versel at fit heating rate (10-50°c/hr) offerent for 1-5 hrs. Final temp. @ 800~1000°C
	prefirm heat the versel at fit heating rate (20-50°c/hr) oliflerent for 1-5 hrs. Final temp. @ 800~1000°C. [P ii) - Charge the mix into a mord which will be transferred under a pressure in the same time pass the current through to the applied pressure can be around 5000 psi.) Theat the mold (10-50°c/hr) to 800°c ~ 1000°C. For 1-5 hrs.
	prefirm heat the versel at fit heating rate. (20-10-50°c/hr) olifferent for 1-5 hrs. Final temp. @ 800 ~ 1000°c [P ii) - Charge the mix into a mold which will be transferred under a pressone in the same time pass the current through to the applied pressure can be around 500 ~ 1000 psi.) Then the billets will go through oxidation process if necessary, and
	prefirm heat the versel at fit heating rate (20-50°c/hr) oliflerent oliflerent for 1-5 hrs. Final temp. @ 800~1000°C [P ii) - Charge the mix into a mord which will be transferred under a pressure in the same time pass the current through to the applied pressure can be around 500~1000 psi.) Then the billets will go through oxidation process if necessary, and graphitization to make final carbon or graphite from produce;
	for 1-5 hrs. Final temp. @ 800~ 1000°C. [P ii) - Charge the mix into a mold which will be transferred under a pressure in the same time pass the convent through to the applied pressure can be around 500~ 1000°C. Then the billets will go through oxidation process if necessary, and graphitization to make final carbon or graphite from product; Performed and Recorded by: Dai Huang Date
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Noxt Meeting: April 20			
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meet bith Graffeet once a quarte		igania di manda di serie de la certa d	
defree of communications with Gr	caftech.		
· New method of making			
Carbon blacks.			
· April -12. Nanstribe talk.			
· technology alliance presentation	on a (A.D. Little)	n the share o	dolle.
· E-room			
-28-2001			
			Andrew Control of the
20% Whight			
220 Auke 88% 502 12% HeD			
$4'\phi \times 1''$	· fiberglass · Account Tile.		
	Stemdard -		
Cross-Reference (if any) Sound Absorption 4" \$\Phi \times 1"	Stendard:		

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Subject	9
Cross-Reference (if any)	
First C/C trial at Laurenceburg. (BP pricess!	
Rew materials, I. MC 1/4" fiber burelles (##20)	. É escae
3. 5tandard binder pitch (50)	1
	\$101 and 0
Composition: Exp. 1: 85% fiber	
15% pitch (with Sulfur adolition)	
Exp. 2: 80% fiber	ter et fil alle
200% pitch. (mith 5 addition	
procen. Dry mix fiber + pitch.	Sident with
BP proces: 13" xq" x4"/2"	
- drive. Quantity. But experiment make 2 bricks.	
SR is low, might consider to add Sand (%?)	
)05/
2rd C/c trial at Laurenchy (BP prom)	e de la companya de l
Raw materials, 1 a.MC 1/4" fiber bundle	
b. Anoco 1/2 filer with PVC sizing	
2. Amos herophere pritch. I company MC+pritch	1 4 =
	Amoco + pinh
Composition. Exp 1 85% fiber 85/15 2	1
15% pitch (no sugar) 75/25 2	
Top 2. 75% Liber	
25% pitch (no suiper)	
te 5-28-200 Performed and Recorded by: 1. 20.11 Date	To the control of the
Directed by:	
te Read and Understood by: Date	

